In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- (Withdrawn) A ligand specific for mammalian troponin, wherein the ligand comprises a molecule that binds to a mammalian troponin molecule, but not an avian troponin molecule.
- 2. (Withdrawn) The ligand of Claim 1, wherein the mammalian troponin molecule is a troponin I molecule.
- (Withdrawn) The ligand of Claim 1, wherein the mammalian troponin molecule is selected from the group consisting of a slow twitch skeletal muscle troponin I molecule and a fast twitch skeletal muscle troponin I molecule.
- 4. (Withdrawn) The ligand of Claim 1, wherein the ligand is an antibody and the troponin molecule is a polypeptide.
- (Withdrawn) The ligand of Claim 1, wherein the ligand is an antibody produced by immunizing an animal with a peptide having an amino acid sequence selected from the group consisting of SEO ID NOS: 2-6. 9-13, and 15-35.
- (Withdrawn) The ligand of Claim 1, wherein the ligand binds to a peptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13, and 15-35.
- (Withdrawn) The ligand of Claim 1, wherein the ligand binds to a nucleic acid molecule encoding a peptide having an amino acid sequence selected from the group consisting of SEO ID NOS: 2-6, 9-13, and 15-35.

- (Withdrawn) The ligand of Claim 1, wherein the ligand is specific for an equine troponin I protein, a porcine troponin I protein, a bovine troponin I protein, or a combination thereof.
- 9. (Withdrawn) An antigen for the production of an antibody specific for a mammalian troponin molecule, wherein the antigen comprises an isolated peptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13, and 15-35, wherein the antibody is not specific for an avian troponin molecule
- (Currently Amended) An assay for detecting a mammalian troponin molecule in a sample, the assay comprising:
 - a) reacting the sample with a ligand that is specific for the mammalian troponin molecule and not specific for an avian troponin molecule for a time and under conditions sufficient to form a complex between the ligand and the troponin molecule; and
 - b) detecting the complex either directly or indirectly as a measure of the presence or amount of the troponin molecule in the sample; and,
 - wherein the ligand reacts with or binds to an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6, 9-13 and 15-35.
- 11. (Previously Presented) The assay of Claim 10, wherein the mammalian troponin molecule is a troponin I molecule.
- 12. (Previously Presented) The assay of Claim 10, wherein the mammalian troponin molecule is a troponin I molecule selected from the group consisting of a slow twitch skeletal muscle troponin I molecule and a fast twitch skeletal muscle troponin I molecule.
- 13. (Previously Presented) The assay of Claim 10, wherein the ligand is an antibody and the troponin molecule is a polypeptide.
- (Previously Presented) The assay of Claim 10, wherein the ligand is an antibody produced by immunizing an animal with a peptide having an amino acid sequence selected from the group consisting of SEO ID NOS: 2-6, 9-13, and 15-35.

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- (Previously Presented) The assay of Claim 10, wherein the ligand binds to a
 peptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 2-6,
 9-13, and 15-35.
- (Previously Presented) The assay of Claim 10, wherein the ligand binds to a nucleic acid molecule encoding a peptide having an amino acid sequence selected from the group consisting of SEO ID NOS: 2-6, 9-13, and 15-35.
- (Currently Amended) The assay of Claim 10, wherein the ligand is specific for an
 equine troponin I protein, a porcine troponin I protein; or a bovine troponin I protein or—a
 combination-thereof
 - 18. (Previously Presented) The assay of Claim 10, wherein the sample is animal feed.
- 19. (Withdrawn) A method of making an antibody that is specific for a mammalian troponin molecule and not specific for an avian troponin molecule, comprising administering to an animal an immunogenic amount of a peptide having an amino acid sequence selected from the group consisting of SEO ID NOS: 2-6, 9-13, and 15-35.